

CLAIMS

1. A profile gasket composition comprising a base resin comprising 8-15 parts by weight of a dynamically crosslinked mixture or blended elastomer (Semi-IPN) of a synthetic rubber and polypropylene; 10-20 parts by weight of a metallocene-based olefin elastomer; 2.13-10.3 parts by weight of polymethylmethacrylate; 0.6-6 parts by weight of a hydrogen-added thermoplastic resin (HSBC); and 2-10 parts by weight of a mixture of thermoplastic urethane and a hydrogen-added resin as an adhesive resin.

2. The composition as defined in claim 1, wherein the base resin further comprises any one resin selected from among 2-5 parts by weight of ethyleneacrylate ethyl copolymer, 2-4 parts by weight of polypropylene homopolymer, 2-3 parts by weight of polyisoprene, and mixtures thereof.

3. The composition as defined in claim 1 or 2, wherein the base resin is added with 20-60 parts by weight of a filler, 10-30 parts by weight of a plasticizer and 0.5-7 parts by weight of other additives.

4. The composition as defined in claim 3, wherein the additives comprise stearic amide and polyethylene wax as a surface friction-reducing agent.

5. A profile gasket comprising a high hardness part and a low hardness part, manufactured from the composition comprising a base resin including 8-15 parts by weight of a dynamically crosslinked mixture or blended elastomer (Semi-IPN) of a synthetic rubber and polypropylene; 10-20 parts by weight of a metallocene-based olefin elastomer; 2.13-10.3 parts by weight of polymethylmethacrylate; 0.6-6 parts by weight of a hydrogen-added thermoplastic resin (HSBC); and 2-10 parts by weight of a mixture of thermoplastic urethane and a hydrogen-added resin as an adhesive resin.

6. The profile gasket as defined in claim 5, comprising:

a locking part below a gasket base for mounting the gasket to a refrigerator door as a target body;

a contact sealing part for sealing a junction of the refrigerator door with an edge of a refrigerator cabinet; and

an elastic support part for elastically supporting the contact sealing part to the gasket base;

wherein the locking part includes barb wings which are easily inserted into a fitting groove of the target body but generate release resistance so as not to be easily released from the groove and truss supports connecting the barb wings with the gasket base, and functions to lock the gasket base including a collar at one side thereof to the target body, and

the elastic support part includes a plurality of bulged flexible connectors, functioning to elastically support the contact sealing part to the gasket base, in which one side of the bulged flexible connector is equipped with a sub-contact surface and an extension wing, and the extension wing is provided with an elastic support.

7. The profile gasket as defined in claim 5 or 6, wherein the base resin further comprises any one resin selected from among 2-5 parts by weight of ethyleneacrylate ethyl copolymer, 2-4 parts by weight of polypropylene homopolymer, 2-3 parts by weight of polyisoprene, and mixtures thereof.

8. The profile gasket as defined in claim 5 or 6, wherein the base resin is added with 20-60 parts by weight of a filler, 10-30 parts by weight of a plasticizer and 0.5-7 parts by weight of other additives.

9. The profile gasket as defined in claim 8, wherein the additives comprise stearic amide and polyethylene wax as a surface friction-reducing agent.